

## EAST Search History

| Ref #    | Hits | Search Query  | DBs                             | Default Operator | Plurals | Time Stamp       |
|----------|------|---|---------------------------------|------------------|---------|------------------|
| S87      | 3    | scroll\$3 same reduc\$3 near resolution                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:33 |
| S89      | 8    | scroll\$3 and 345/423.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:37 |
| S90      | 8    | 345/688.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:41 |
| S91      | 5    | "5172102".uref.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:44 |
| S92      | 5    | "5659333".uref.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:56 |
| S93      | 6    | 345/428.ccls. and 345/671-688.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 12:58 |
| S94      | 37   | 345/428.ccls. and scroll\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 13:19 |
| S96      | 416  | 345/428.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 13:26 |
| S95      | 21   | 345/428.ccls. and airplane  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 13:26 |
| S97      | 99   | 345/428.ccls. and reduc\$3 same detail  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 13:27 |
| S98      | 81   | 345/428.ccls. and reduc\$3 same detail<br>and (translat\$3 scroll\$3 mov\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/04/01 13:51 |
| S99      | 20   | 345/428.ccls. and reduc\$3 same detail<br>same (translat\$3 scroll\$3 mov\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/11/12 16:22 |
| S10<br>7 | 1    | image and indispensable and<br>supplemental                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/11/12 16:23 |
| S10<br>6 | 0    | 345/423.ccls. and indispensable and<br>supplemental                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/11/12 16:23 |
| S10<br>8 | 19   | image and indispensable and<br>supplement\$3                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2004/11/12 16:25 |

## EAST Search History

|      |       |  |                                 |    |    |                  |
|------|-------|--|---------------------------------|----|----|------------------|
| S110 | 2496  | image same vector and supplement\$3                              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 16:26 |
| S109 | 15281 | image and vector and supplement\$3                               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 16:26 |
| S111 | 270   | image same vector and (minim\$2<br>basic) same supplement\$3     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 17:23 |
| S113 | 54    | 345/660-671.ccls. and 345/672-689.<br>ccls. and image            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 17:25 |
| S114 | 9     | 345/660-671.ccls. and 345/672-689.<br>ccls. and image and vector | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 17:31 |
| S115 | 0     | 345/423.ccls. and 345/672-689.ccls.<br>and image and vector      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 17:32 |
| S117 | 1     | "5977978".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:00 |
| S119 | 1     | "5689577".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:03 |
| S118 | 1     | "5886702".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:03 |
| S120 | 1     | "5649079".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:05 |
| S121 | 1     | "5630039".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:07 |
| S123 | 1     | "5602979".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:08 |
| S122 | 1     | "5617322".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:08 |
| S125 | 1     | "5581673".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:10 |
| S124 | 1     | "5590248".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:10 |
| S126 | 1     | "5579454".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:11 |
| S127 | 1     | "5563995".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:12 |
| S129 | 1     | "5553206".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:13 |
| S128 | 1     | "5561749".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:13 |

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|          |   |               |                 |    |    |                  |
|----------|---|---------------|-----------------|----|----|------------------|
| S13<br>1 | 1 | "5497451".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:14 |
| S13<br>0 | 1 | "5522019".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:14 |
| S13<br>3 | 1 | "5410644".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:15 |
| S13<br>2 | 1 | "5412762".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:15 |
| S13<br>6 | 1 | "4888713".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:16 |
| S13<br>5 | 1 | "4845651".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:16 |
| S13<br>4 | 1 | "5398307".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:16 |
| S14<br>0 | 1 | "4941114".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:17 |
| S13<br>9 | 1 | "4933889".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:17 |
| S13<br>8 | 1 | "4933889".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:17 |
| S13<br>7 | 1 | "4912664".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:17 |
| S14<br>1 | 1 | "4994989".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:18 |
| S14<br>3 | 1 | "5125038".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:21 |
| S14<br>2 | 1 | "5107444".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:21 |
| S14<br>4 | 1 | "5189626".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:23 |
| S14<br>5 | 1 | "5193145".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:24 |
| S14<br>7 | 1 | "5255352".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:25 |
| S14<br>6 | 1 | "5214752".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:25 |
| S15<br>1 | 1 | "5367615".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:26 |
| S15<br>0 | 1 | "5345490".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:26 |
| S14<br>9 | 1 | "5303386".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:26 |
| S14<br>8 | 1 | "5257346".PN. | USPAT;<br>USOCR | OR | ON | 2004/11/12 18:26 |

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|          |     |  |                                 |    |    |                  |
|----------|-----|--|---------------------------------|----|----|------------------|
| S15<br>3 | 1   | "5379371".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:27 |
| S15<br>2 | 1   | "5377011".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/12 18:27 |
| S11<br>6 | 9   | 345/423.ccls. and scroll\$3                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 18:27 |
| S15<br>6 | 0   | "4994989".uref. and 345/672-689.ccls.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 18:28 |
| S15<br>5 | 0   | "4994989".uref. and 345/672-689.ccls.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 18:28 |
| S15<br>4 | 48  | "4994989".uref.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 18:28 |
| S11<br>2 | 65  | 345/660-671.ccls. and 345/672-689.<br>ccls.                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 18:54 |
| S15<br>8 | 95  | 345/660-671.ccls. and scroll\$3 and<br>resolution          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 19:02 |
| S15<br>7 | 27  | 345/660-671.ccls. and 345/672-689.<br>ccls. and resolution | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 19:02 |
| S15<br>9 | 27  | 345/660-671.ccls. and scroll\$3 same<br>resolution         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 19:08 |
| S16<br>0 | 107 | 345/660-671.ccls. and point same<br>resolution             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 19:44 |
| S16<br>1 | 11  | 345/672-689.ccls. and 345/441.ccls.                        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 19:51 |
| S16<br>2 | 37  | scroll\$3 and 345/441.ccls.                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/12 20:04 |
| S16<br>4 | 2   | "6208343".uref.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/15 11:54 |
| S16<br>6 | 1   | "5751285".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:56 |
| S16<br>5 | 1   | "5872566".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:56 |
| S16<br>8 | 1   | "5532715".PN.  | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:58 |

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|          |     |                          |                                 |    |    |                  |
|----------|-----|--------------------------|---------------------------------|----|----|------------------|
| S16<br>7 | 1   | "5633657".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:58 |
| S17<br>1 | 1   | "5526480".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:59 |
| S17<br>0 | 1   | "5528259".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:59 |
| S16<br>9 | 1   | "5530455".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 11:59 |
| S17<br>3 | 1   | "5495566".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:00 |
| S17<br>2 | 1   | "5506951".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:00 |
| S17<br>6 | 1   | "5371846".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:01 |
| S17<br>5 | 1   | "5374942".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:01 |
| S17<br>4 | 1   | "5473344".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:01 |
| S17<br>8 | 1   | "5196838".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:02 |
| S17<br>7 | 1   | "5313229".PN.            | USPAT;<br>USOCR                 | OR | ON | 2004/11/15 12:02 |
| S16<br>3 | 213 | 345/684.ccls.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/15 12:56 |
| S17<br>9 | 9   | 345/688.ccls.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/15 13:00 |
| S18<br>0 | 170 | 345/672.ccls.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/15 15:16 |
| S18<br>1 | 5   | "5172102".uref.          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/15 16:39 |
| S18<br>2 | 1   | "6535139".pn.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/16 10:23 |
| S18<br>3 | 1   | "5434591".pn. and vector | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2004/11/16 10:24 |
| S18<br>4 | 10  | 345/688.ccls.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/07 12:10 |
| S18<br>5 | 223 | 345/684.ccls.            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/07 12:11 |

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|          |      |   |                                 |    |    |                  |
|----------|------|---|---------------------------------|----|----|------------------|
| S18<br>6 | 56   | 345/684.ccls. and (indispensible minimum)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/07 15:05 |
| S18<br>7 | 20   | 345/423,420,424.ccls. and 345/672-688.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/07 15:22 |
| S18<br>8 | 10   | (minimum indispensable key necessary crucial) near point and 345/672-688.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/07 15:27 |
| S19<br>1 | 3    | 345/428.ccls. and 345/672-688.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/08 10:05 |
| S18<br>9 | 18   | (minimum indispensable key necessary crucial important essential) adj2 point and 345/672-688.ccls.                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/08 10:09 |
| S19<br>3 | 39   | 345/428.ccls. and (scroll\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/08 10:17 |
| S19<br>2 | 6    | (minimum indispensable key necessary crucial important essential) adj2 point and 345/428.ccls. and (scrolling moving) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/06/08 10:17 |
| S19<br>4 | 1    | "5434591".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2005/11/23 10:10 |
| S19<br>6 | 237  | 345/684.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 11:57 |
| S19<br>5 | 13   | 345/688.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 11:57 |
| S19<br>7 | 173  | 345/684.ccls. and point   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 11:58 |
| S19<br>9 | 1013 | scrolling and point same minimum  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 12:09 |
| S19<br>8 | 11   | 345/684.ccls. and point same minimum  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 12:09 |
| S20<br>0 | 33   | scrolling and data adj point same minimum   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 14:39 |
| S20<br>4 | 1    | "6906717".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 14:55 |

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|          |     |  |                                 |    |    |                  |
|----------|-----|--|---------------------------------|----|----|------------------|
| S20<br>3 | 1   | 11/060116  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/28 14:55 |
| S20<br>5 | 1   | 09/988617 and minimum  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/03/30 10:15 |
| S20<br>6 | 1   | "5434591".pn. and vector   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/08 13:32 |
| S20<br>8 | 1   | "4688181".pn. and point  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/08 14:08 |
| S20<br>7 | 1   | "5434591".pn. and point  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/08 14:08 |
| S1       | 1   | 09/988617  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/13 15:07 |
| L1       | 100 | nishiyama-sumio.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/13 15:08 |
| L2       | 0   | (vector and predetermin\$2 same point<br>and supplementary and scroll\$3).clm. | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2006/09/13 15:10 |